

C50
THE NEW GENERATION



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The Avon C50 protective mask is based on the U.S. M50/ JSGPM (Joint Services General Purpose Mask) and sharing key technologies, provides maximum operational flexibility to counter multiple threat scenarios, including chemical, biological, nuclear and radiological (CBRN) agents, Toxic Industrial Chemicals (TICs), and Toxic Industrial Materials (TIMs).

The C50 offers high protection, outstanding field of vision and superior comfort. The innovative design features optimize the user's time in the operational area.

Ideal for :

Battlefield CBRN protection
First Responders
Corrections Officers
Specialist law enforcement
Counter terrorism operations



The C50 twin port mask is NIOSH CBRN Cap 1 approved with the CBRNF12B filter (TC-14G-0285) and NIOSH 42 CFR 84 riot control CS/ CN/P100 approved with the CTF12 filter (TC-14G-0278)

The C50 meets the latest NATO military requirements

Unique Visor Technology

- Polyurethane visor is highly flexible plus scratch and impact resistant and will not yellow over time
- Optically correct across the whole field of view
- Panoramic visor design gives excellent field of vision and wearer recognition while enhancing compatibility with weapon sights
- The Vision Correction System allows prescription lenses to be mounted inside the mask
- Clear outserts for extreme environments
- Sunlight outserts for high intensity light situations
- BlueBlocker outsert delivers sharper images by filtering out specific light wavelengths



- Heat build up minimized
- Low inhalation resistance
- Excellent de-mist properties
- Common valves for simplicity and lower through-life cost

Air Flow Management

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User Benefits

- The unique chlorobutyl/silicone blend face piece material ensures the mask is not only high in protection but also provides a better seal and is more comfortable to wear for extended periods
- Compatibility with helmets, CBRN protective clothing and NFPA Class 3 Suits due to the low profile, close contour brow, flat buckles and extended chin flap
- Quick donning due to the pre-adjusted buckles
- 3 sizes providing secure and comfortable fit for all facial shapes and sizes

Hydration

- High flow fail safe drinking device allows connection to either a canteen or bladder type hydration system

- Front mounted exhale valve allows clear direct communication
- For enhanced communication, an optional Voice Projection Unit (VPU) with internal microphone is easily connected via the Electronic Communication Port (ECP)
- Additional external communication systems can be attached via this ECP using available leads

Communications

- Filter canisters are side mounted on either left or right side minimizing interference and allowing improved capability for shoulder mounted devices
- Standard STANAG round thread 40 x 1/7 mm
- Allows for PAPR devices for improved protection

Filtration



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C50 Mask Specifications

Filter	Part Number	Classification	Application
CSCF50	72601/71/4	Riot Control	All particulate hazards including dust, fume, bacteria and virus, plus riot agent CS (meets 8 hour NIOSH test standards) and CN (<1 hour NIOSH test standards)
GPCF50	72601/70/2	NATO CBRN	Chemical, biological and radiological warfare agents in accordance with NATO requirements. Also certain toxic industrial chemicals such as chlorine, hydrogen sulphide, sulphur dioxide and organic vapors, with a boiling point of above 65°C.
CTF12	70010/19/2	NIOSH Approved 42 CFR 84 CS/CN/P100	All particulate hazards including dust, mist, fume, bacteria and virus, plus riot agents, CS/CN/OC and low level organic vapors.
CBRNF12B	71510/1	NIOSH Approved CBRN CAP 1	Dual classification for industrial and CBRN applications. All particulate hazards including dust, mist, fume, bacteria and virus plus all NIOSH specified CBRN gases and vapors including nerve, blood, choking and blister agents and toxic industrial materials.

Technical Data

CBRN Agent Resistance	Requirement	C50 performance
Mustard (H) Sarin (GB) Soman (GD) VX	36 hours	Greater than 36 hours
Laboratory protection factor performance (sodium chloride)	2,000	Greater than 10,000
Re-breathed CO ₂	Less than 1%	0.8%
Inhalation resistance at:		
30 l/min	5 mm WG	3 mm WG
95 l/min	15 mm WG	13 mm WG
160 l/min	25 mm WG	23 mm WG
Exhalation resistance at 160 l/min	30 mm WG	15 mm WG
Mask weight	N/A	490 grams
NIOSH Visual Field Score (VFS)	90	96

C50 Mask Assembly

Description	Part Number
C50 Mask Assembly Twinport LGE	70501/187
C50 Mask Assembly Twinport MED	70501/188
C50 Mask Assembly Twinport SML	70501/189



Industry Certified Protection Factors

NATO standard protection factors give reassurance that the mask has been rigorously tested to optimum levels.
NIOSH CBRN approved TC-14G-0285.
NIOSH approved 42 CFR 84 CS/CN/P100 TC-149-0278.

The C50 respirator falls within the definition of Significant Military Equipment in the United States Munitions List, International Traffic in Arms Regulations and may only be supplied outside of the United States of America to customers who are licensed by the US Department of State, Directorate of Defense Trade Controls.



Contract Holder
Contract GS07F0285V

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